

**Listing of claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1-30 (cancelled)

31. (Currently amended) An erythropoietin receptor (EPOR) analog protein comprising an amino acid sequence that has at least one amino acid substitution from domain D1 and at least one amino acid substitution from domain D2, as compared to the wild-type EPOR sequence (SEQ ID NO: 2), ~~The EPOR analog protein according to claim 20 comprising at least one amino acid substitution from said domain D1 and at least one substitution from said domain D2,~~ said substitutions comprising amino acid residues at positions 40, 53, 55, 57, 69, 79, 81, 85, 96, 98, 100, 109, 127, 129, 138, 140, 142, 156, 158, 160, 174, 183, 192, 194, 196, 198, 207, and 218.

Claims 32-33 (cancelled)

34. (previously presented) The EPOR analog protein according to claim 31 further comprising a linker.

35. (previously presented) The EPOR analog protein according to claim 34 further comprising a dimerization motif.

36. (previously presented) The EPOR analog protein according to claim 35 wherein the protein comprises SEQ ID NO: 37.

Claims 37-38 (cancelled)

39. (new) The EPOR analog protein according to claim 34 in which the linker is a peptide linker selected from the group consisting of (GS)<sub>n</sub>, (GSGGS)<sub>n</sub> (SEQ ID NO: 34), (GGGGS)<sub>n</sub> (SEQ ID NO: 35), and (GGGS)<sub>n</sub> (SEQ ID NO: 36).

40. (new) The EPOR analog protein according to claim 35 in which the dimerization motif is a coiled coil motif selected from the group consisting of RMEKLEQKVKELLRKNERLEEEVER LKQLVGER (SEQ ID NO: 31), AALESEVSALESEVASLESEVAAL (SEQ ID NO: 32), and, LAAVSKLSAVKSKLASVKSKLAA (SEQ ID NO: 33).